

***FlyBy Math™* Alignment**  
**Hawaii Content and Performance Standards III: Mathematics**  
**Updated 9/28/05**

**Strand: Measurement**

**Standard 4: FLUENCY WITH MEASUREMENT**

Understand attributes, units, and systems of units in measurement; and develop and use techniques, tools, and formulas for measuring

**Topic and Benchmark**

*Measurement Tools and Techniques*

MA. AI.4.1 Use formulas, functions, or conversion equations to solve problems dealing with determining a measurement based on another derived or given measurement

***FlyBy Math™* Activities**

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

--Use the distance-rate-time formula to predict and analyze aircraft conflicts.

**Strand: Patterns, Functions, and Algebra**

**Standard 9: PATTERNS AND FUNCTIONAL RELATIONSHIPS:**

Understand various types of patterns and functional relationships

**Topic and Benchmark**

*Patterns*

MA.AI.9.1 Determine if a linear pattern exists in a set of data and represent the data algebraically and graphically

***FlyBy Math™* Activities**

--Represent distance, speed, and time relationships for constant speed cases using linear equations and a Cartesian coordinate system.

**Standard 10: SYMBOLIC REPRESENTATION:**

Use symbolic forms to represent, model, and analyze mathematical situations

**Topic and Benchmark**

*Numeric and Algebraic Representations*

MA.AI.10.2 Translate between verbal mathematical situations and algebraic expressions and equations

***FlyBy Math™* Activities**

--Represent distance, speed, and time relationships for constant speed cases using linear equations and a Cartesian coordinate system.

*Numeric and Algebraic Representations*

MA.AI.10.5 Solve systems of two linear equations in two variables algebraically and graphically

--Represent distance, speed, and time relationships for constant speed cases using linear equations and a Cartesian coordinate system.

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

--Compare airspace scenarios for both the same and different starting conditions and the same and different rates.